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19318A MLRS Missile Number BN-131,BN-125, BN-1	10 DN 100 DN 115	
Round Number V-301/PQ-41 thru V-309	19,6N-108,6N-115 5/P0-45	6. PERFORMING ORG. REPORT NUMBER
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19. KEY WORDS (Continue on reverse side if necessary and	i identify by block number)	
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3	identify by block number)	
Meteorological data gathered for the	e launching of t	he 19318A MLRS, Missile
Number BN-131, BN-125, BN-119, BN-108, V-305/PQ-45 are presented in tabular	BN~115, Round Nu r form	mber V-301/PQ-41 thru
	`	

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MTT DTT Unit Just By_ Dis	announced	

INTRODUCTION

19318A MLRS, Missile Numbers BN-131, BN-125, BN-119, BN-108, and BN-115, Round Numbers V-301/PQ-41 thru V-305/PQ-45, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1455:00, 1455:05, 1455:10, 1455:14, and 1455:18 MDT, 16 Aug 1982. The scheduled launch times were 1445:00, 1445:04.5, 1445:09, 1445:13.5, and 1445:18 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature ($^{\circ}$ C), relative humidity, dew point ($^{\circ}$ C), density (gm/m 3), wind directions and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

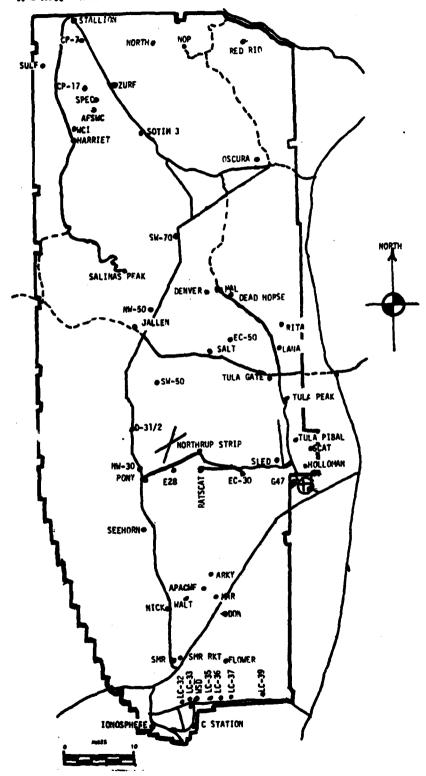
WSD 2 km SMR 2 km

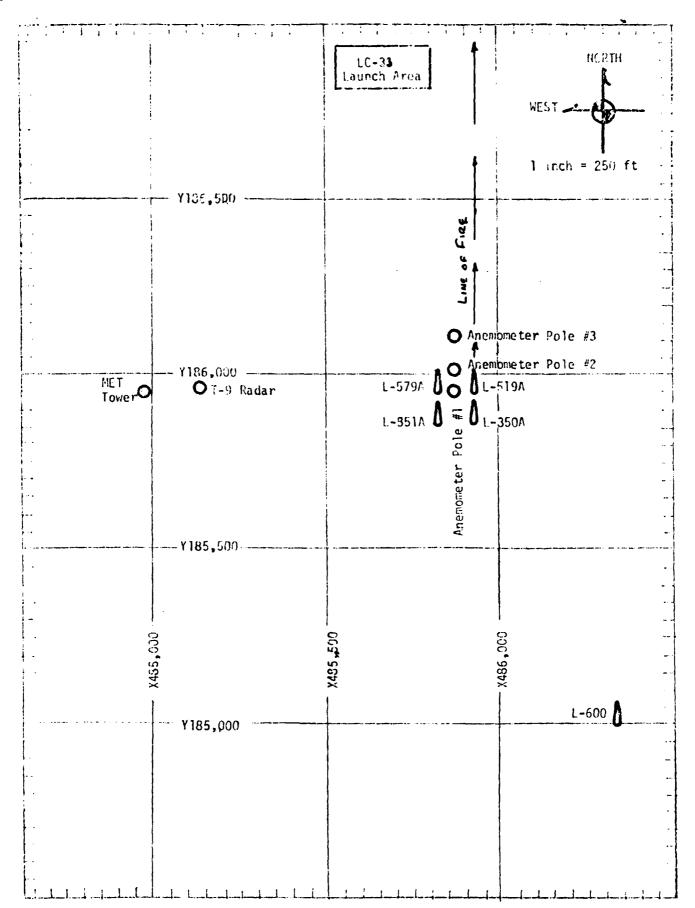
(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

LC-37 1215 MDT WSD 1330 MDT LC-37 1345 MDT WSD 1545 MDT

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE	႕						<i>V</i> 1	STATION 15-33 EAA	33 E&A		
DATE 16	NAM .	1982	t				^	X* 484 982 64	, T	Y= 185, 957, 73 H= 3995, 00	= 3995.00
TIPE M D I	PRESSUPE TENPERATURE OF OC	TE:PERK	I	DEW POINT OF OC	INT OC	PELATIVE HUMIDITY %	DENSIIY ga/m³	DI RECTION degs In	WIND SPEED kts	CHARACTER VISIBIL- kts ITY	VISIBIL- ITY
1455	880.9	,	34.5		13.6	13.6 29	066	220	13		40 MI
										i <u> </u>	
			-								

	RE:!APKS		CB N THRU F MOV NW	CB St THRU W MOV NW		CB W THRU N MOV NW
			CBNI	CB SW		CB W T
	4	нст				
	d LAYE	ANT TYPE HGT				
	1 3r	A:T				
	2	HGT	3 CI 25,000			
CI DIIDS	2nd LAYER	TYPE	:		1	
	2nc	AMT	က		1	
	er.	HGT	6500			
	t LAYE	AMT TYPE HGT	cu 6500'			
	S	AM	Ŋ			
	OBSTRUCTIONS	TO VISIBILITY				

PSYCHROFETRIC COMPUTATION

1455	34.5	20.2	14.3	13.6	29%
TIPE:	DRY BULB TEIP.	WET BULB TEMP.	WET BULB DEPR.	DEW POINT	RELATIVE HUMID.

TABLE 2 LC-33 FIXED PULE ANEMOMETER MEASURED WINDS

POLE #1 X485,874 Y185,958 H4018.74 38.7 ft	8.90 4		POLE #2 x485,87 Y186.01 H4033.5 53.0 ft	4.29 2.00 7		POLE #3 X485,87 Y186,11 H4063 9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
- 30	222	14	- 30	213	12	- 30	222	17
-20	227	16	-20	235	10	-20	219	17
-10	233	16	-10	221	14	-10	228	17
0.0	225	14	0.0	226	12	0.0	226	19
+10	223	16	+10	218	14	+10	212	16

TABL	33	LC-33 METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED WINDS	(202 FT	TOWER)
------	----	----------------------	-------	------------	----------------	---------	--------

LEVEL #1, 12 X484,982.64		3. H3983.00 (base)	X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
-30	216	10	- 30	220	11
-20	216	09	-20	213	10
- 10	202	07	-10	209	09
0.0	195	07	0.0	209	09
+10	189	08	+10	206	10

LEVEL #3, 10 X484,982.64		3, H3983.00 (base)	LEVEL #4, 20 X484,982.64		3, H3983.00 (base
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
- 30	209	14	- 30	212	14
-20	207	13	-20	217	14
-10	195	12	-10	210	14
0.0	206	12	0.0	210	13
+10	207	12	+10	217	14

THIME PRINCIPANT ONE TO COME OF A

M 11 16 August 1982

SITE: WSD

TIME: 1511 MDT

WSTM COORDINATES:

X= 488,717.25

Y= 184,862.84

H= **3,993.75**

SITE: SMR

TIME: 1455 MDT

ASTE COMPOSITATES:

X= 472,444.85

Y = 213,781.96

H= 4,000.99

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KHOTS
SURFACE	210	18	SURFACE	190	12
150	233	13	150	216	10
210	235	11	210	213	80
270	219	09	270	203	07
330	206	09	330	191	10
3 90	207	07	300	187	14
500	209	07	(no	186	18
650	212	05	$(\cdot 5 \cdot)$	187	19
800	162	05	មូលឯ	192	15
950	150	04	950	205	12
1150	122	80	1150	220	15
1350	- 113	06	1350	192	19
1550	155	05	1550	173	12
1750	173	08	1750	175	04
2000	150	10	2000	165	06

Data obtained from Nike-Herc Radar Tracked pilot-balloon observation.

Data obtained from RAPTS T-9 Radar Tracked pilot-balloon observation.

AIMING AND T-TIME COMPUTER MET MESSAGES 16 August 1982

LC-37 1215 MDT	WSD 1330 MDT
METCM1324063	METCM1324064
161830124882	161950122884
00187004 30790882	00320004 31180884
01204008 30690872	01236007 30830874
02218010 30390848	02346010 30590850
03235009 30010811	03285012 30220813
04226011 29560765	04266008 29790768
05245011 29110722	05243011 29210725
06226012 28690681	06253007 28680683
LC-37 1345 MDT	WSD 1545 MDT
METCM1324063	METCM1324064
161980124880	162180122881
00178006 31090880	00293006 31270881
00178006 31090880 01202011 30870871	00293006 31270881 01319016 30980872
01202011 30870871	01319016 30980872
01202011 30870871 02213014 30540847	01319016 30980872 02325010 30660848
01202011 30870871 02213014 30540847 03218012 30150809	01319016 30980872 02325010 30660848 03332011 30260811

STATION ALITIUDE 4351-37 FEET MSE 16 AUG. 02 1215 MDT ASLENSION 40. 73	MSL	SIGNII 10. 2.2 LC- TABLE-6	SIGNIFICANT CENCE ONIA LC-5/ TABLE-6	φ.	0L0D_11C C00nv11A1ES 52-40175 LAT JE0 106-51252 LON OLO
PRESSIIA	PRESSUME GEOMETRIC ALTITUDE MILLIDARS MSE FEET	TELPL AIR DEGREES	TELPLRATURE AIR DEWIGINA DEGREES CENTIONADE	KLL - MON - PERCENT	
881.8	4051.4	32.7	14.3	0.50	
965.95 9.535		31.3	11.7	50.00	
765.7		20.7	3. 7.	47.0	
0.00/	10666.8	14.1	ر د د	00°C	
7.010		5.1	2.5	0.68	
1984		3.7	7.7	ŋ•/o	

STATION ALTITULA 16 AUG. C.2 ASCENSION NO.	4	"v3215' MDH 1 "SL	75. L	, F	U.P.L.C. Ask DAIA 2.00100070 CC-37 TABLE-7	4		∨∟∪∪∟Т1 32• 1⊍••	**************************************
DE WALTREE	PRESSORE	15,4	IE, PERATURE	HEL. HIM. TENSITI		Sr cto of	A140 0.14.	4	1110EX
ALITIONE MSL PERT	HILLIDAK,	11K DEGKEES	114 DEWHOLUS RJ DEGREES CENTIGHADE	PERCE'IT	t 17CUNTE	300mi)	01Rcc1104 0cokcc5(14)	SPEEU NROTS	UP INEFICACTEDIA
4051.4	8.108	32.7	14.3	53.0	997.3	063.0	103.6	4.	Po/000-1
3.004#	ლიიმ	11.5	12.1	30.5	9.0RV	1.780	115.1	5.0	1.000278
°•000c	452.9	9.42	11.3	3.2 . 3	642000	07.4.0	162.5	5.0	1.000273
5500.	29.50	50.0	11.0	34.7	7 • C · JIN	1.070	14.7.5	7.4	1.000270
0000	2+12	5000	11.07	57.1	D-140.6	6,070	1-1-1	6.7	1.000207
1200ca	910.6	20.5	100 €	39.4	0.046	074.5	7.00.0	9.7	1.000204
7.000.7	/+04/	P.05	7 7	41.7	923.0	073.4	160.0	10.5	1.000200
7500•0	782.0	22.5	٥.	0.44	417.4	074.0	14/03	11.1	1.000250
?•000o	703.6	71•1	Ι• υ	46.3	6.006	110.0	1-1-1	11.0	1.000253
3.0053	1,50.1	19.8	R.7	48•3	13.6.1	3.0.10	140.4	10.9	1.000249
O-000A	5.24/	10.5	¥•3	»•1¢	4386.	1./90	10101	10.8	1.000245
9500.c	1:301	17.2	7.4	0.46	370.0	0.690	104.0	10.8	1.000242
0000T	p•01/	15.8	7.5	26.6	**	1.490	7.50	11.1	1.004230
10200	2.467	14.5	1.4	1.00	7.00	0000	1,001	11.9	1.000254
7.000TT	6.160	13.5	6.3	02.7	320.1	1.170	10101	12.4	1.000231
11500.0	0°F/9	12.0	0•9	00.00	19579	0.600	75021	15.1	1.0002.8
12006.) • noq	10.3	6.07	, .	1.01	1.000	142.5	11.9	1.000264
12500.)	0.460	9.6	£ • ·	74.	0.4260	1.000	143.1	11.2	1 - 11 0 11 2 . 1
15000.	P44.3	6.3	υ•υ	78.0	** Tu/	2000	164.0	10.3	1.090210
13500.3	631.1	7.1	, • . 3	45.5	199.0	2000			1.000.14
74000.3	615.7	5.9	3•8	36.5	164.4	6.260			1.000.11
14500	600.4	4.7	0.5	8 8. 5	1.657	0.100			1.000200
3.000041	2.160	3.B	ا •٠	87.1	147.9	0.640			1.000.1

	9LODLTIC LOGNOINATES 32-40175 LAT DEG 105-31232 LOH DEG	
MA: DATORY LLULLS	22,441,4607,4 LC-37 TABLE-8	
	ALTITUDE 4.31.37 FEFT MSL 32 UN NO. 78 1215 MDT	

PRESSURE	PRESSURE GEUPOTENTIAL	L TEMP	ERA FURE	KEL HOUS	UNIN U	AIA
ULLI_{BAKS}	FEET	DEGREES	DEGREES CENTIGRADE	ביינרוז	LEGREES (IN) KNOTS	KNO15
1.50	5129.	29.0	11.1		124.0	c. 5
9000	6896.	24.5	70.5	• 7 =	120.9	10.3
756.	8724.	19.5	3.0		129-1	10.9
, 00%	10656.	14.1	6.5		132.5	12.1
1.059	12694.	9.1	2.1		123.3	10.8
1007	14255	# · #	2.1			

3N ALTITULE 3'389*110 FELT MSL 5• v2 51011 110• 403	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	516/11/ TUN 22/ 141 TABLE-9	SIGNIN TONIN LEVEL URIN PLITE JANGO TABLE-9	۷ · ۷	ULUDLTIL LUUNUINAILS 32.40043 LAT DEG 106.37033 LO% DEG
PRESSUM	PRESSURE GFOWETRIC ALTITUDE MALLIBAMS MAL FEET	TECPLE AIN D	TELPLIATURE AIN DEMINIMA DEGREES CENTIBURALE	HERCEIST	
4.833		36.7	13.5	0.62	
3.52.8		32.9	7.6	24.0	
0.063	5132.4	31.2	10.0	27.0	
893.0		56.4	6.1	0.10	
3.761		27.2	7.47	34.0	
721.0		17.4	y•2	3.05	
100,001		14.2	3.5	61.0	
657.3		8•9	0.0	3.0 5	
9,960		3.05	?	0.77	

STATION ALTITUDE 16 AUG. 82 ASCENSION NO. **	3 3	3989.00 FEET 1330 NOT	75# 145 14	_	UPPER AIR DATA 2280020403 WHITE SANDS TABLE-10	24 E		6E0DL 71 32• 106•	GEODLTIC COOKUINATES 32.40043 LAT DEG 106.37033 LON DEG	
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIUARS	DEGR	TEMPERATURE K UEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOIS	WIND DATA UIRECTION S UEGREES(IN) K	TA SPEED KNOTS	INUEX OF REFRACTION	
3989.0	883.5	36.7	13.5	25.0	980.8	0.989	180.0	t • •	1.006281	
0.000*	2999	36.0	13.3	20.0	986.9	687.8	2.6.6	~ !	1.000280	
5000		31.5	10.0	26.5	971.2	681.8	164.7		1.000267	
5500.0	834.4	0.00	9.6	28.0	959.5	680-1	159.6	6.1	1.000263	
6000.0		28.5	8.0	29.4	948.5	5.979	155.7	6.9	1.000259	
6500°		26.7	O• 6	30.8	937.6	070.2	152.6	7.7	1.000254	
7000.0	797.2	26.9	1.6	32.5	920.4	10070	T-041		1.000254	
	100	7.02	D .	7.00	9.606		0.01	? .	7020001	
0.000	769.8	23.4	7 • 0	0.00	699	8.7.9	7.057	70.5	1.000249	
		0.0	7 4	7 2 2	200	7.010	4.14.	9 0	012000	
9500.0	730.5	18.2	7.5	19.0	869.0	2000	1.99.3	9.6	1.000242	
10000.0		16.5	6.9	53.2	858.7	1.000	136.6	4.6	1.000236	
10500.0	704.0	14.8	6.9	58.8	848.2	662.9	7.961	9.0	1.000234	
11000.0	692.3	13.3	6.7	64.3	837.5	1.199	156.5	8.5	1.000252	
11500.0		11.7	9.	69.8	826.9	659.3	0.401	8•1	1.000229	
12000.0		10.5	0.9	75.3	916.4	657.5	130.2	7.8	1.000226	
12500.0	655.6	8.7	5.5	79.9	805.9	655.8	125.2	7.6	1.000223	
13000.0	643.6	7.7	n•=	79.3	794.4	654.5	117:0	7.8	1.000217	
13500.0	631.8	9.9	3.2	78.8	783.1	653.1	108:3	9.0	1.000212	
1.000.0	620.2		2.0	78.2	771.9	651.7			1.000207	
14500.0	90e	# (Ç.	77.6	760.9	650.4			1.000202	
12000.0	0.760		~;	77.0	750.0	C+7.			1.000197	

ALTITUDE 3989.00 FEFT MSL 82 ON NO. 403 PRESSUKE GEOPOT	ENTIAL	Ε,	TABLE-11 TEMPERATURE REL.H	V CELV V CELV CELV V CELV V CELV CELV CELV CELV CELV CELV CELV CELV	WIN NOTITY OF	GEODETIC COONDINATES 32.40043 LAT DEG 106.37033 LON DEG NTA
MILLIBARS	FEET	DEGREES	CENTIGRADE	FCACCIA	DEGREES (IN)	KNOTS
A50 • D	5129.	31.2	10.0	27.	163.2	5.6
A00.0	6895.	27.1	0.7	32.	150.6	d.3
750.0	8748	20.8	9.8	***	143-0	0.01
700.0	10685	14.2	6.8	61.	136.2	© 1
50.0	12720.	B . U	Ø. #	90.	122.3	7.5
0000	14876.	3.6	•	7.		

STATION ALTITUDE 4051.77 FEET MSL 16 AUG. 02 ASCENSION NO. 79	нЅĹ	SIGNIF TCANT 2-341c LC-37 TABLE-12	SIGNIF TCALT LEVLL UALA 223/103079 LC-37 TABLE-12	A 1 A	**************************************
PKESSUM :-ILLIBA	PRESSUME GEONETRIC ALTITUDE GILLIBAMS MSL FEET	TEPPO AIR DEGREES	TEFFLRATURE AIR DEWPULMI DEGREES CENTIUMALE	ALL-MUM. PERCENT	
₹•∪9R		36.1	12.3	3.4.	
5, 19n		32.9	10.3	9.67	
0.050	5085.2	30.A	10.0	0.87	
723.8		17.3	3.0	3.00	
700.00		14.7		0.40	
to 12		8.3	3.0	98.0	
3,,6		7.4	.î.	3.50	
627.6		6.8	÷ •	J. 00	
2*469		3.9	7:-	75.0	

STATION ALITIULE 16 AUG. 62 ASCENSIUM NO.	ارد ر	4651.37 FEEE 1345 MDT	.1 nSL	•	UPER AIM DAIM 22.80160079	4. 25 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4		uEODE11 32. 106.	VEODETIC COUNDINALES 32.40175 LAT DEG 106.31232 LON DEG
GEONETRAL ALTATUDE HSL FEET	PRESJURE MILLIDARS	1E%F A1K Degrees	JESFERATURE AIK DEWPOINT DEGREES CENTIGKADE	REL.HUM. PERCENT	LENSITY LYCUBIC METER	SPLEU OF SOUND NAOIS	LANCTION S LEGRESSIN N	JA SPEEU RNOTS	INCEX OF REFERENTION
4051.4	8-0-8	30.1	12.3	24.0	9.8°C	267.60	1001	0.9	1.000277
4500.0	867.0	32.9	10.3	25.0	981.0		105.5	7.0	1.000209
2000.0	854.5	31.1	10.2	27.6	7.076		110.1	8.1	1.000267
5.500¢¢	83/68	56.6	10.4	30.5	956.0		113.0	9.5	1.000200
0°000°	823.4	28.1	10.0	33.5	940.5		110.5	10.4	1.000204
3.00co	2.408	26.7	10•6	36.6	934 · t		110.4	11.6	1.000202
7000-	2.cf./	25.5	10.5	39.60	452.4		140.4	12.8	1.000200
7500.0		23.7	10.3	45.6	911.5		122.9	13.4	1.000257
0.000s	10001	22.3	10.0	45.7	3.006		120.0	13.7	1.000254
3°00°5		%0.8	9.¢	48.7	889.1	0.070	149.0	14.0	1.00021
5,000.0	141.8	19•4	א•ר	51.7	676.4		132.1	13.6	1.000247
9500.0	123.0	17.9	R.7	54.7	667.5		157.0	13.2	1.0002**
10000	710.5	16.5	8.3	58.5	450.5	C++35	144.6	12.6	1.000241
10200.0	703-6	15.1	₩.	62.B	840.4		740.0	11.8	1.000238
11000.0	691.0	13.7	7.0	67.8	G-453		100.0	10.6	1.300235
11500.6	670.6	12.3	7.5	73.0	625.0		4.001	9.6	1.000252
12000.0	\$000	٠٠٥١	7•3	78.3	812.5	65000	101.4	8.7	1-00022
12500.0	654.4	9.5	£•\$	83.5	4.108		150.0	8.2	1.000246
13000.0	9.749	8•1	6.5	H9.3	791.4		151.6	7.7	1.000223
13200.0	630.0	7.0	J.	49.5	780.2				1.000217
14000.0	614.5	1.9	i de se	43.2	769.0				1.000209
1+500.0	60/09	5•1	3•t	10.4	757.9	2.150	•		1.009203
1.000c1	290.1	0 · *	7.	75.5	0.447	7.7.70			1.000197

DN ALTITUD 5. 82 5104 NO.	ON ALTITUGE 4,51.37 FEET MSL 5. 82 1345 MDT 5104 NO. 79	r rist	AM 77	MALDATURY LEVELS 2284100079 LC-37 TABLE-14	7.9 7.9		OEODLTIC COORDINATES 32.44175 LAT VEG 106-31232 LON VEG
	PHESSUME (PRESSURE GLUPOIENTIAL	TEMPE	TEMPEKATURE	KLL.HU	Alto DAÍA Linecilos Speri	AÍA SPERU
	MILLIBARS	FELT	DEGREES C	ENTIGRADE		LUKES! IN	NWOTS
	950		30.8	10.2	200	110.0	6.3
	C-004		25.7	10.0	.25		14.4
	750.0		20.3	9.5	50.		2.5
	7007		14.7	6.0	• • • •		11.5
	4.056	12074.	9•6	6.7	85°		0.3
	0.00°		7.4	<u>.</u>	:		

1 ALTITULL 3: . 62 !ui No. 405	1 ALTITUDE 3989.00 FEET MSE. 82 1018 NO. 405 1545 MDT	1 51	SIGNIFICA 220 TABLE	SIGNIFICANT CEVEL DAIA 2284020403 HITE SAHDS TABLE-15	7 · 4 ·	SEOPLTIC COUNDINATES 52-40043 LAF DEG 106-3/033 LON DEG
	PRESSURE	PRESSURE GFONETRIC ALTITUDE ALITTURE MEL FELT	TERPEL AIR	TEMPERATURE AIR OEMPOINT	RLL-INM. PERCENT	
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		27.5	10111	4	
	7.100	0 6 6 6 7 7		2 4 4	2 4 4 5	
	850.0	5000.2	31.4) : 	30.CC	
	784.9	7385.3	24.8	10.7	43.0	
	727.3	9560.6	18.7	7.5	3.25	
	70,00	10634.4	15.2	9.0	3.45	
	655.0	12471.7	10.2	3.	58.0	
	604.0	14667.0	3.6	3.1	74.0	
	571.6	10133.1	۲,	7:-	0.86.	
	3.C.	17606.8	-3.5	-3.0	70.0	
	525.2	18348.3	つ・サー	3.71	3. F. G.	
	521.3	16542.3	-1.7	-1.0	0.66	
	513.0	18966.8	-5∙8	2.51	70.0	
	500°0	19624.1	-5.5	C-	2.65	
	495.0	19852.8	-5.2	4.0.	0.66	
	493.4	19069.1	 5	9:	3.66	
		20080.1	-7.4	-7.5	2.65	
		26232.4	-6.3	10.4	2.4	
		20385.1	7-6-	7.5-	99.0	
		20612.5	-7.6	-7.7	99.0	
		21062.4	-9.5	-14.5	0.70	
		21748.4	-10.4	-15.5	0.99	
		22516.0	-13.1	-50.0	0.27	
		25242.5	-17.8	-550	23.0	

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TAT106.	11114DE	3249.00 FEET NSL	~
16 AUG.	75	16 AUG. n2 1545 MDT	=,
SCE MO.	04 T	•	TAI

STATION ALTITUDE 16 AUG. n2 ASCENSION NO. 4	40r s	1545 MOFET	ET NSL		UPPER AIN UNI 228402405 HITE SAMUS TABLE-16	4		UEODETI 32• 106•	ULODETIC COMUDINATES 32-40043 LAT DEG 106-37033 LON DEG
GEUMETRIC ALTITUDE MSL FEET	PRESSURE HILLIDAMS	TEM A1M DEGKEES	PENATUPE UEMPOINT CENTIGRADE	REL.HUM. PERCENT	DEUSITY GM/CUBIC METER	Jeren OF Jerondo Nicols	LINC DATA	SPEEL KNOTS	INLEX OF NEFRACTION
3989.0	881.2	37.5	11.5	21.0	982.4	5680°	300.0	0.0	1.000272
4000		•	11.9	21.7	982.5	_	105.1	0.9	1.000274
4500.0	Bou.2	33.3	15.9	35.4	977.0	194.7	109.6	6.5	1.000291
20000	851.1	31.6	14.7	35.9	960.4	_	1/2.5	6.9	1.000264
5500.0	837.5	30.5	13.8	36.4	954.6		175.5	7.4	1.000278
0.0000	823.1	20.1	13.0	38.0	343.2		1.0.1	7.9	1.000273
0500.0	803-1	27.3	12.2	39.1	9-166		7.52		
3.007		* on 0	?•11	7.0	9.026	6.070 L	0.001		2020001
D-060/	9-19/	54.0	0.01 0.01		***		9-007		1.00025
3-0000	7 1	7.07) i		0.7,0		0 1	CC2000.1
	C + C - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	7-12			2000		7.541	0 0	9+2000° -
	4-11-62		7	V . C .	1.00			0 4	*******
9.9004	7.7.2	100			100		7 4 4 4		1100001
	7.70/	9-61	•	200	1000 1000	, con	142.6	10.9	1.000231
	400	241	4	9	B.35.5.6		t.ebc.t	10.3	4770001
1500	6700	12.8		9.09	822.2		7.57	6.6	1.00025
	6000	11.5	3.5	0.40	#17A		125.4	9.8	1.000222
12500.0	654.5	10.1	9•	68.4	8000		1.00.1	8.7	1.000218
13000-0	2.749	9.0	*:	75.2	790.4	_	179.4	9.5	1.000216
1,5560.0	636.5	7.0	?· •	82.1	780.2	-	G-921	9.6	1.000214
14000.0	7.670	\$.\$.	3.6	0.85 0.00	770.6		1,500	10.1	
74550.0	/•/00	6 °C	3.3	7.36	1.00.4		110.0	10.9	
15000.0	0.00	2.7	() •	e. 6	7.75/		717.	11.8	
7.0000	1	0 1	? '		3.60				
10000.0	7.0		2:1	D C C C C C C C C C C	71850	2000	#*COT		1.00014
7,00071	E - 0.0	-200	-2-	C	207		111.55	14.0	1410001
17500.0	2.4.0	-3.5		0.0	0.000		7101	14.6	1.000180
14000.3	534.5	-3.9	7	49.5	686.3		141.3	15.9	1.000177
10500.0	524.2	-2.3	-20-	37.11	0.699		144.1	16.8	
19000-0	217.5	-5-8	-6-3	2.36	665.5	637.9	1<0.0	17.5	1.000109
19500.3	204.4	-5.6	F-5-B	49.4	652.1	636.2	1-921	16.3	1.000166
2000 0. 0	•	-2.4	-2•6	0.66	631.7	6.747	104°4	22.3	1.000167
Ů•00¢n7	-	-8-	-A-5	=-66	J. 4. C	7.450	7.201	23.5	1.000159
21000.0	47**	-9.5	-13.4	71.4	624.5	4.050	A-00T	20.3	1.000151
41500.0	* · • · •	-10.1	-15.1	66.4	614.4	636.4	1920	19.6	1.000147
75000.0	450.0	-11-3	-10.2	51.6	60t.v	_	200	20.0	1.000142
22500.0	440.7	-13.0	-29.A	22.	30°	_	3.951	16.8	1.000136
23000°	20.70	1001	6.05-	25.6	286.1	***	0.11	10.0	#C1000·T

JEODETIC COUNDINATES J2-44843 LAT DEG 106-37033 LOM DEG	INUEX OF HEFRACTION	1.000151 1.000129 1.000127 1.000125
UEODETA 32. 106.	SPEEU SPEEU RNOTS	
	LINE DATA LEGREESTIN ANOTS	
ont'd	SPEED OF SOURCE NAME OF	576.3 626.3 566.7 625.3 559.3 624.2 550.0 623.1
Urper Air Daia 2200020405 EHITE SAMUS TABLE-16 cont ¹ d	REL-11UM DE.ISITY SALLU UP PERCEIIT CM/CUBIC SULAD MLTER NIOIS	576.3 566.7 559.3 559.0
5 F	REL JIUM. PERCENT	22.22 22.22 20.25 20.25
1 4SL	GEUMLTHIC PRESSURE LESAPERATUPE ALITUDE AIR DEBPOINT MSL FELT AILLIDARS DEGRES CENTIGRADE	-51.5 -52.2 -52.8 -53.5
3983-10 FFF 454. 1545 NOT	IEMP AIM DEGREES	-14.8 -15.7 -10.5 -17.4
	PRESSURE ATEL LUARS	#29.1 #20.5 #14.1
STATION ALTITUDE 16 AUG. 62 ASCENSIUM WO. 40	GEUMETHIC ALTITUDE MSL FELT	23500.0 24500.0 25000.0

LLVELS
NATURY
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220020402 HITE SANDS TABLE 17

STATION ALTITUDE 3989-00 FFLT MSL 16 AUG. BZ 1545 MDT ASCENSION NO. 405

GEODETTE COUNDINATES 32.40043 LAT DEG 106.37033 LON DEG

HESSUME G	GEUPOTENTIAL		PERATUME	KEL. HUM.	u Dist	AIA
MILLIBARS	FELT		AIR LE POINT DEGREES CENTIGRADE	PERCENT	LEGHLES(IN) KNO	SPEED
50.0	5057.	31.4	14.5		172.8	7.0
000	6828	26.4	11.6	3	172.0	6.7
50.0	8681.	21.2	8∙ €	45.	141.5	9.2
0.00	10624.	15.2	0.9		141.7	10.8
50.0	12668.	9.6		71.	130.0	6.0
000	14827	9.0	2.7	900	114.9	11.5
2.000	17124.	-2.3	-2.b	-96	112.9	14.1
000	19596	5.5	-5.	9%	130.0	16.5
450.0	22279.	-12.4	-25.1	**	137.0	19.6
0000	>5100°	-17.8	5.33.8	2.5		

